

Power Controlled Interleave-division Multiple-access Wireless Communica- tion Systems

Abstract

Transmission methods of interleave-division multiple-access (IDMA) system are disclosed. An objective of the present invention is to provide a signal structure that can substantially increase the overall transmission rate and meet the requirements of different transmission rates in wireless telecommunication systems. Such requirements arise in applications such as mixed speech and data services where different services may employ different rates for transmission. Such applications are often referred as multimedia applications. The disclosed transmission method includes an extra power control operation applied to output of an IDMA transmitter.